

Appln No. 09/826,202
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Reply to Office Communication of 06/03/2004
Docket No.14XZ101/GEM-0085

Amendments to the Claims:

The listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1 (currently amended): A method for ~~light treatment~~ compensating an emission spectrum comprising:

providing a source of ~~light~~ radiation having an emission spectrum, the source responsive to incident radiation, photons, ~~the source having a first part of the emission spectrum that is independent of the temperature of the source and a second part of the emission spectrum that is dependent on the temperature of the source~~;

providing a detector which ~~that~~ is sensitive to the emission spectrum;

providing a filter between the source and the detector, the filter having ~~in which the light is filtered~~ with a cutoff frequency such that ~~a~~ the first part of the emission spectrum is transmitted and ~~a~~ the second part of the emission spectrum is intercepted, ~~the detector not being photosensitive to the first part of the spectrum, and the detector being photosensitive to the second part of the spectrum~~.

2 (currently amended): A device for ~~light treatment~~ compensating an emission spectrum comprising:

means for emission of ~~light~~ radiation having a spectrum, the means for emission responsive to incident radiation, photons, ~~the means for emission having a first part of the emission spectrum that is independent of the temperature of the source and a second part of the emission spectrum that is dependent on the temperature of the source~~;

means for detecting which is sensitive to the emission spectrum; and

means for filtering the ~~light~~ radiation disposed intermediate the means for emission and the means for detecting, ~~so that the means for filtering transmitting the~~ a first part of the emission spectrum of the light emitted is transmitted, ~~the means for detecting not being photosensitive to the first part of the spectrum, and a the~~ second part

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of the light emission spectrum is intercepted. ~~, the means for detecting being photosensitive to the second part of the spectrum.~~

3 (previously presented): The device according to claim 2 wherein the device is integrated with an intensifier.

4 (currently amended): The device according to claim 2 wherein the means for filtering is disposed below a light radiation intensifier on a light radiation path.

5 (previously presented): The device according to claim 4 wherein the means for filtering is mounted in contact with the intensifier.

6 (currently amended): The device according to claim 3 wherein the means for filtering is one or more layers of a material to filter the part of the light not desired radiation that is intercepted.

7 (previously presented): The device according to claim 4 wherein the means for filtering is mounted in contact with the intensifier.

8 (currently amended): A radiological imaging cassette comprising:
means for emission of light radiation having an emission spectrum, the means for emission responsive to incident radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;

means for detecting which is sensitive to the emission spectrum; and
means for filtering the light radiation disposed intermediate the means for emission and the means for detecting, the means for filtering permitting the so that a first part of the spectrum of the light radiation emitted is to be transmitted, the means for

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~~detecting not being photosensitive to the first part of the spectrum, and a the second part of the light radiation spectrum is to be intercepted. the means for detecting being photosensitive to the second part of the spectrum.~~

9 (previously presented): The cassette according to claim 8 wherein the cassette is integrated with an intensifier.

10 (currently amended): The cassette according to claim 8 wherein the cassette contains means for filtering disposed below a light radiation intensifier on a light radiation path.

11 (previously presented): The cassette according to claim 10 wherein the means for filtering is mounted in contact with the intensifier.

12 (previously presented): The cassette according to claim 8 wherein the cassette contains an analog film.

13 (previously presented): The cassette according to claim 8 wherein the cassette contains a digital light detector.

14 (currently amended): A measuring module containing a device comprising:

means for emission of light radiation having an emission spectrum, the means for emission responsive to incident radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;

means for detecting which is sensitive to the emission spectrum; and

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means for filtering the light radiation disposed intermediate the means for emission and the means for detecting, ~~so that a~~ the means for filtering transmitting the first part of the emission spectrum of the light emitted is transmitted, ~~the means for detecting not being photosensitive to the first part of the spectrum, and a~~ the second part of the light emission spectrum is intercepted, ~~the means for detecting being sensitive to the second part of the spectrum.~~

15 (previously presented): The module according to claim 14 wherein the module is integrated with an intensifier.

16 (previously presented): The module according to claim 14 wherein the module contains means for filtering disposed below a light radiation intensifier on a light radiation path.

17 (previously presented): The module according to claim 16 wherein the means for filtering is mounted in contact with the intensifier.

18 (previously presented): The module according to claim 14 wherein the module contains a photomultiplier tube, the device being mounted above the photomultiplier tube.

19 (currently amended): The module according to claim 14 wherein the module contains a light radiation intensifier.

20 (currently amended): The module according to claim 18 wherein the module contains a light radiation intensifier.

21 (currently amended); The module according to claim 14 comprising means for guiding the light radiation emanating from the means for emission.

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22 (currently amended): A radiology apparatus comprising:
means for emission of radiation having an emission spectrum, the means for emission responsive to incident radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;
means for detecting which is sensitive to the emission spectrum; and
means for filtering the radiation disposed intermediate the means for emission and the means for detecting, ~~so that a wherein the~~ first part of the spectrum of the radiation emitted is transmitted, ~~the means for detecting not being photosensitive to the first part of the spectrum;~~ and ~~a the~~ second part of the radiation spectrum is intercepted, ~~the means for detecting being photosensitive to the second part of the spectrum.~~

23 (previously presented): The radiology apparatus according to claim 22 wherein the means for detecting contains an analog film.

24 (previously presented): The radiology apparatus according to claim 22 wherein the means for detecting contains a digital radiation detector.

25 (currently amended): A radiology apparatus comprising:
means for emission of radiation having an emission spectrum, the means for emission responsive to incident radiation, photons, the means for emission having a first part of the emission spectrum that is independent of the temperature of the means for emission and a second part of the emission spectrum that is dependent on the temperature of the means for emission;
means for detecting which is sensitive to the emission spectrum; and
a module containing a device comprising means for filtering the radiation disposed intermediate the means for emission and the means for detecting, ~~so that a~~

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wherein the first part of the spectrum of the radiation emitted is intercepted, the means for detecting not being photosensitive to the first part of the spectrum, and a the second part of the spectrum is intercepted, the means for detecting being photosensitive to the second part of the spectrum.

26 (original): The radiology apparatus according to claim 25 wherein the device is integrated with an intensifier.

27 (currently amended): The radiology apparatus according to claim 25 wherein the device containing the means for filtering is disposed below a light radiation intensifier on a radiation path.

28 (previously presented): The radiology apparatus according to claim 25 wherein the device containing the means for filtering is mounted in contact with the intensifier.

29 (currently amended): A method for radiation output comprising:
providing an intensifier having an emission spectrum in response to incident radiation;

providing a detector, which has a sensitivity to the emission spectrum;
determining a wavelength of the emission spectrum at which the detector that is independent of the temperature of the intensifier is photosensitive to or the sensitivity that is temperature dependent; and another wavelength of the emission spectrum that is dependent of temperature of the intensifier;

providing a filter between the intensifier and the detector, the filter having a transmission spectrum that suppresses the wavelength that the detector is photosensitive to temperature dependent is dependent of the temperature of the intensifier.

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30 (currently amended): An article of manufacture comprising:
means for intensifying having an emission spectrum in response to incident
radiation, the emission spectrum having a wavelength that is temperature sensitive;
means for detecting that has a sensitivity to the emission spectrum; and, the
~~emission spectrum having a wavelength at which the means for detecting is photosensitive~~
~~to, and~~
means for filtering having a transmission spectrum that suppresses the wavelength
that the means for detecting is photosensitive to intensifying is temperature sensitive.

31 (previously presented): The article according to claim 30 wherein the
emission spectrum of the means for intensifying has a selected wavelength that is
suppressed by the means for filtering.

32 (previously presented): The article according to claim 30 wherein the
emission spectrum of the means for intensifying has a principle peak centered at around
545 nm.

33 (previously presented): The article according to claim 30 wherein the means
for filtering and the means for intensifying are integrated.

34 (previously presented): The article according to claim 30 wherein the means
for filtering suppresses the wavelength shorter than a principle peak of the emission
spectrum of the means for intensifying.

35 (previously presented): The article according to claim 30 wherein the means
for filtering comprises material from the group consisting essentially of glass,
polycarbonate or acetate, the material having a dye or organic or mineral pigment
incorporated therein.

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36 (previously presented): The article according to claim 30 wherein the means for filtering is a plurality of layers.

37 (previously presented): The article according to claim 30 wherein the means for detecting is a film.

38 (previously presented): The article according to claim 30 wherein the means for detecting is a photomultiplier tube.

39 (previously presented): The article according to claim 30 wherein the means for detecting is a charge transfer cell.

40 (previously presented) The article according to claim 30 wherein the mean for filtering is adapted to transmits radiation close to a principle peak of the emission spectrum of the means for intensifying and to intercepts radiation of wavelength corresponding to those of a secondary emission peak of a wavelength less than those of the principle emission peak.

41 (previously presented): The article according to claim 30 wherein the means for intensifying comprises a base of gadolinium oxysulfite terbium.

42 (currently amended): An article of manufacture comprising:
means for intensifying having an emission spectrum in response to incident radiation, the means for intensifying having an emission spectrum with a wavelength that is temperature sensitive;

means for detecting that has a sensitivity to the emission spectrum, the emission spectrum having a wavelength at which the means for detecting is photosensitive to; and

means for filtering having a transmission spectrum that suppresses the wavelength that the means for detecting is photosensitive to intensifying is temperature sensitive;

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the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and

the means for filtering being disposed between the means for intensifying and the means for detecting.

43 (currently amended): A radiology apparatus comprising:
a source of emitted radiation;
a cassette for receiving the emitted radiation, the cassette comprising:
means for intensifying having an emission spectrum in response to the emitted radiation, the emission spectrum having a wavelength at which the means for intensifying is temperature dependent;

means for detecting that has a sensitivity to the emission spectrum, ~~the emission spectrum having a wavelength at which the means for detecting is photosensitive to~~; and

means for filtering having a transmission spectrum that suppresses the wavelength that the means for detecting is photosensitive to intensifying is temperature dependent;

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and

the means for filtering being disposed between the means for intensifying and the means for detecting.

44 (currently amended): A radiation dose measuring module comprising:
means for intensifying having an emission spectrum in response to incident radiation, the emission spectrum having a wavelength at which the means for intensifying is temperature dependent;

means for detecting that has a sensitivity to the emission spectrum, ~~the emission spectrum at which the means for detecting is photosensitive~~; and

means for filtering having a transmission spectrum that suppresses the wavelength that the means for detecting is photosensitive to intensifying is temperature dependent;

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the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying;

the means for filtering being disposed between the means for intensifying and the means for detecting; and

a frame supporting the means for intensifying, the means for detecting and the means for filtering,

the frame forming a guide for the radiation of the emission spectrum of the means for intensifying.

45 (currently amended): A method for radiation output comprising:
providing an intensifier having an emission spectrum in response to incident radiation;

providing a detector, which has a sensitivity to the emission spectrum;
determining a wavelength of the emission spectrum at which the detector ~~is photosensitive~~ is temperature dependent; and

providing a filter between the intensifier and the detector, the filter having a transmission spectrum that suppresses the wavelength that ~~the detector is photosensitive to the intensifier is temperature dependent~~.

46 (currently amended): An article of manufacture comprising:
means for intensifying having an emission spectrum in response to incident radiation;

means for detecting that has a sensitivity to the emission spectrum; and
means for filtering having a transmission spectrum that suppresses the a wavelength of the emission spectrum ~~at which that the means for detecting is photosensitive to intensifying is temperature dependent~~.

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47 (previously presented):: The article according to claim 46 wherein the emission spectrum of the means for intensifying has a selected wavelength that is suppressed by the means for filtering.

48 (previously presented): The article according to claim 46 wherein the emission spectrum of the means for intensifying has a principle peak centered at around 545 nm.

49 (previously presented): The article according to claim 46 wherein the means for filtering and the means for intensifying are integrated.

50 (previously presented): The article according to claim 46 wherein the means for filtering suppresses the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying.

51 (previously presented): The article according to claim 46 wherein the means for filtering comprises material from the group consisting of glass, polycarbonate or acetate, the material having a dye or organic or mineral pigment incorporated therein.

52 (previously presented): The article according to claim 46 wherein the means for filtering is a plurality of layers.

53 (previously presented): The article according to claim 46 wherein the means for detecting is a film.

54 (previously presented): The article according to claim 46 wherein the means for detecting is a photomultiplier tube.

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55 (previously presented): The article according to claim 46 wherein the means for detecting is a charge transfer cell.

56 (previously presented): The article according to claim 46 wherein the mean for filtering transmits radiation close to a principle peak of the emission spectrum of the means for intensifying and intercepts radiation of wavelength corresponding to those of a secondary emission peak of wavelength less than those of the principle emission peak.

57 (previously presented): The article according to claim 46 wherein the means for intensifying comprises a base of gadolinium oxysulfite terbium.

58 (currently amended): An article of manufacture comprising:
means for intensifying having an emission spectrum in response to incident radiation, the means for intensifying having a wavelength that is temperature dependent;
means for detecting that has a sensitivity to the emission spectrum ~~where the photosensitivity of the means for detecting is responsive to a wavelength of the emission spectrum~~; and
means for filtering having a transmission spectrum that suppresses the wavelength of the emission spectrum that ~~the means for detecting is photosensitive to~~ intensifying is temperature dependent;
the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and
the means for filtering being disposed between the means for intensifying and the means for detecting.

59 (currently amended): A radiology apparatus comprising:
a source of emitted radiation;
a cassette for receiving the emitted radiation, the cassette comprising:

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means for intensifying having an emission spectrum in response to the emitted radiation, the means for intensifying emitting a wavelength that is temperature sensitive;

means for detecting that has a sensitivity to the emission spectrum where the photosensitivity of the means for detecting is responsive to a wavelength of the emission spectrum; and

means for filtering having a transmission spectrum that suppresses the wavelength of the emission spectrum that the means for detecting is photosensitive to intensifying is temperature sensitive;

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying; and

the means for filtering being disposed between the means for intensifying and the means for detecting.

60 (currently amended): A radiation dose measuring module comprising:
means for intensifying having an emission spectrum in response to incident radiation, the means for intensifying emitting a wavelength that is temperature dependent;

means for detecting that has a sensitivity to the emission spectrum where the photosensitivity of the means for detecting is responsive to a wavelength of the emission spectrum; and

means for filtering having a transmission spectrum that suppresses the wavelength of the emission spectrum that the means for detecting is photosensitive to intensifying is temperature dependent;

the means for filtering suppressing the wavelength shorter than a principle peak of the emission spectrum of the means for intensifying;

the means for filtering being disposed between the means for intensifying and the means for detecting; and

a frame supporting the means for intensifying, the means for detecting and the means for filtering,

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the frame forming a guide for the radiation of the emission spectrum of the means for intensifying.